

CLAIMS

1. A conductive-contact holder that accommodates at least a signal conductive-contact that is a conductive contact for performing input and output of a signal for a
5 predetermined circuit configuration and a ground conductive-contact that is a conductive contact for supplying a ground potential to the predetermined circuit configuration, the conductive-contact holder comprising:
a holder base that is formed of a conductive material,
10 the holder base including
a first opening for accommodating the signal conductive-contact; and
a second opening for accommodating the ground conductive-contact while maintaining an electrical
15 connection with the ground conductive-contact; and
an insulating member that covers an inner surface of the first opening.
2. The conductive-contact holder according to claim 1,
20 further comprising:
a conductive pipe member disposed in the first opening so that an inner surface of the conductive pipe member is in contact with the ground conductive-contact.
- 25 3. A conductive-contact holder that accommodates at least a signal conductive-contact that is a conductive contact for performing input and output of a signal for a predetermined circuit configuration, the conductive-contact holder comprising:
30 a holder base that includes an opening for accommodating the signal conductive-contact; and
an impedance correcting member that is formed of an dielectric material and is formed to be positioned along an

outer periphery of the signal conductive-contact while the signal conductive-contact is accommodated in the opening, and that corrects an intrinsic impedance of the signal conductive-contact.

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4. The conductive-contact holder according to claim 3, wherein

the signal conductive-contact is in a cylindrical shape with a predetermined outer diameter, and

10 the impedance correcting member is in a tubular shape and coaxial with the signal conductive-contact, and corrects the intrinsic impedance by adjusting an outer diameter of the tubular shape and the dielectric constant of the dielectric material.

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5. The conductive-contact holder according to claim 3, wherein

the holder base is electrically conductive.

20 6. The conductive-contact holder according to claim 1 or 3, wherein

the holder base is formed of a material conforming to a thermal expansion coefficient of the predetermined circuit configuration.

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7. The conductive-contact holder according to claim 1 or 3, wherein

the holder base further includes

30 a third opening for accommodating a power-supply conductive-contact that supplies a power to the predetermined circuit configuration; and

an insulating member that covers an inner surface of the third opening.

8. The conductive-contact holder according to claim 1,
wherein

the holder base further includes

5 a first substrate that is formed of a conductive
material, the first substrate including

a fourth opening corresponding to the first
opening; and

a fifth opening corresponding to the second
10 opening; and

a second substrate that is formed of a conductive
material, the second substrate including

a sixth opening corresponding to the first
opening; and

15 a seventh opening corresponding to the
second opening,

the second substrate is fixed to the first substrate
so that the sixth opening communicates with the fourth
opening and the seventh opening communicates with the fifth
20 opening, and

the insulating member includes

a first insulating pipe member inserted into the
fourth opening; and

a second insulating pipe member inserted into the
25 sixth opening.

9. The conductive-contact holder according to claim 8,
wherein

the first insulating pipe member includes an anti-slip
30 flange formed in one end thereof,

the second insulating pipe member includes an anti-
slip flange formed in one end thereof, and

the first insulating pipe member is inserted into the

fourth opening and the second insulating pipe member is inserted into the sixth opening so that the anti-slip flanges are positioned on the side of a boundary between the first substrate and the second substrate.

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10. The conductive-contact holder according to claim 8, further comprising:

a first conductive pipe member that includes an anti-slip flange formed in one end thereof, and is inserted into the fifth opening so that the anti-slip flange is positioned on the side of a boundary between the first substrate and the second substrate; and

a second conductive pipe member that includes an anti-slip flange formed in one end thereof, and is inserted into the seventh opening so that the anti-slip flange is positioned on the side of the boundary between the first substrate and the second substrate.

11. The conductive-contact holder according to claim 8, wherein

the first conductive pipe member has an outer shape different from that of the first insulating pipe member, and

the second conductive pipe member has an outer shape different from that of the second insulating pipe member.

12. The conductive-contact holder according to claim 11, wherein

the first conductive pipe member has an outer diameter larger than that of the first insulating pipe member, and

the second conductive pipe member has an outer diameter larger than that of the second insulating pipe member.

13. The conductive-contact holder according to claim 11,
wherein

the anti-slip flange of the first conductive pipe
5 member has an outer diameter larger than that of the anti-
slip flange of the first insulating pipe member, and

the anti-slip flange of the second conductive pipe
member has an outer diameter larger than that of the anti-
slip flange of the second insulating pipe member.

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14. The conductive-contact holder according to claim 11,
wherein

the anti-slip flange of the first conductive pipe
member has a length in an insertion direction of the first
15 conductive pipe member longer than that in an insertion
direction of the first insulating pipe member, and

the anti-slip flange of the second conductive pipe
member has a length in an insertion direction of the second
conductive pipe member longer than that in an insertion
20 direction of the second insulating pipe member.

15. A conductive-contact unit comprising:

a signal conductive-contact for performing input and
output of a signal for a predetermined circuit
25 configuration;

a ground conductive-contact for supplying a ground
potential to the predetermined circuit configuration;

a conductive-contact holder including
a holder base that is formed of a conductive
30 material, the holder base including

a first opening for accommodating the signal
conductive-contact; and

a second opening for accommodating the

ground conductive-contact while maintaining an electrical connection with the ground conductive-contact; and

an insulating member that covers an inner surface of the first opening; and

5 a circuit board including

a circuit that is electrically connected to at least the signal conductive-contact and generates a signal to be input to the predetermined circuit configuration.

10 16. The conductive-contact unit according to claim 15, wherein

the signal conductive-contact is in a cylindrical shape with a predetermined outer diameter, and

15 the insulating member is in a tubular shape and coaxial with the signal conductive-contact, and corrects an intrinsic impedance of the signal conductive-contact by adjusting an outer diameter of the tubular shape and the dielectric constant of the dielectric material.

20 17. The conductive-contact unit according to claim 15, further comprising:

a ground-potential supply unit that supplies a ground potential; and

25 a connecting unit that electrically connects the holder base and the ground-potential supply unit.